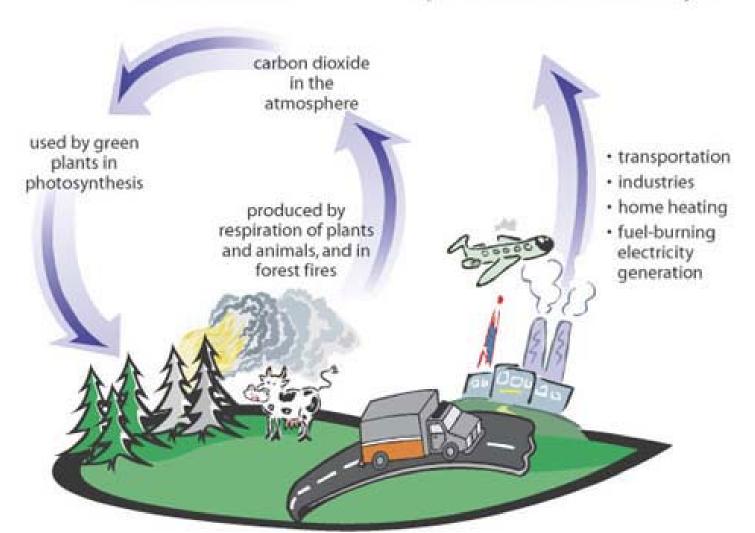
Local Governments & Climate Change



Heather Filiberto
Tompkins County Planning Department
June 12, 2004

What Is Climate Change?

The natural cycle of carbon dioxide Human activities that have upset the balance of the cycle







Climate change



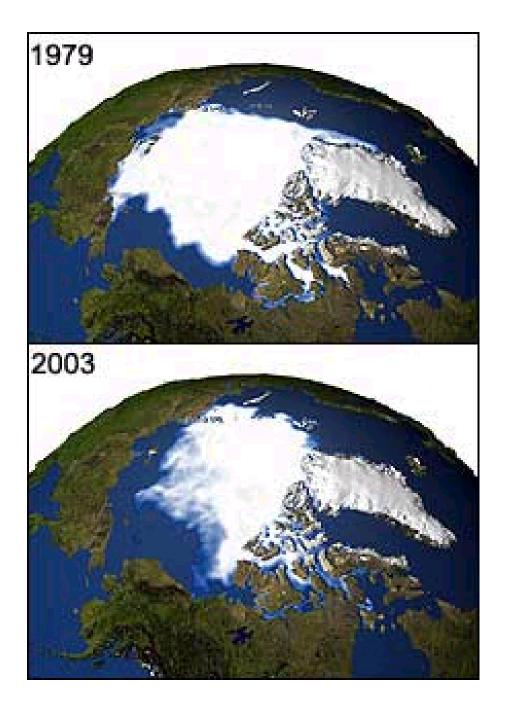




How is this a problem?







What can Local Governments do to Address Global Warming?

Local government policies affect all sources of global warming pollution



Energy **Use**





Solid Waste

Transportation & Planning



Local Governments for Sustainability - I.C.L.E.I.

- International environmental agency of local governments
- Dedicated to equitable environmental & economic sustainability
- Organized in 1990, sponsored by the UN Environment Program
- 6000+ local government members from 6 continents & 50+ countries



Cities for Climate Protection

- Initiated in 1993
- More than 600 municipal participants worldwide – 150 in the U.S.
- CCP municipalities represent 10%+ of international global greenhouse gas emissions resulting from human activity





Five Milestone Framework

- Conduct Baseline Emissions Inventory and Forecast
- Establish Emissions Reduction Target
- Develop Local Action Plan
- Implement Action Plan Measures
- Monitor and Verify



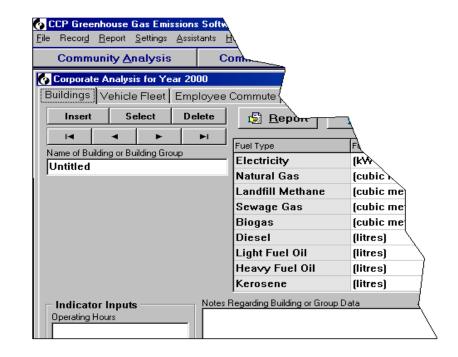
Benefits of the CCP Network

- Network of local governments
- Peer exchange opportunities
- Workshops Northeast in 2005!
- Publications and outreach materials
- Planning tools and methodology
- Case Studies
- Interactive website
- Technical support
- Software



CCP Software

- User-friendly
- Quantify greenhouse gas & air pollution emissions
- Quantify emissions from local government operations + community transportation, energy use, residential, institutional, waste sectors
- Generate reports for multiple audiences





What Cities Can Do

Seattle, WA



Race to Stop Global Warming

Seattle City Light

- Zero-Net Greenhouse Gas
- Offsetting 247,000 tons eCO2

1 Million kWh Conservation Goal

Green Building Program

City buildings LEED silver

Solid Waste Management

• 60% diversion from 1990



What Cities Can Do

Austin, TX



Solar Explorer Program

- 32 kW photovoltaic system
- Austin Airport Taxi Stand

Green Power Development

- 5% renewable power for entire community
- Cutting 255,000 tons CO2 per year

Energy Conservation

- 50% projected growth in energy demand met by conservation and renewable sources
- Austin Green Builder Program



Multiple Benefits of Climate Protection

- Improve air quality
- Reduce municipal operating costs
- Improve public health
- Reduce in traffic congestion
- Develop local economy
- Create local employment
- Improve quality of urban life



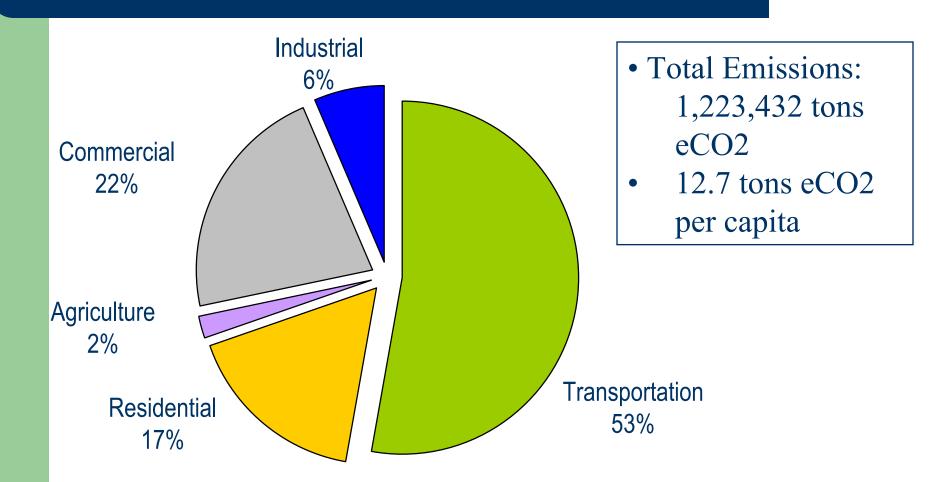
Cities for Climate Protection in Tompkins County

Milestone #1

Baseline Emissions Inventory and Forecast (September 2001)



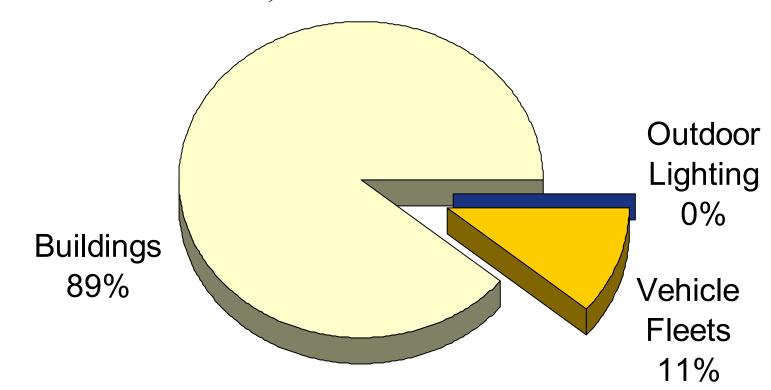
Tompkins County Community GHG Emissions





Tompkins County Government GHG Emissions



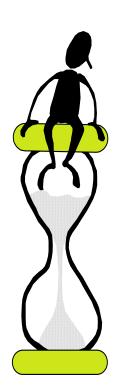




22 Years Later...

Tompkins County in 2020:

- Total Community emissions:
 1,401,907 tons eCO2
- Increase of 7.7% from 1998





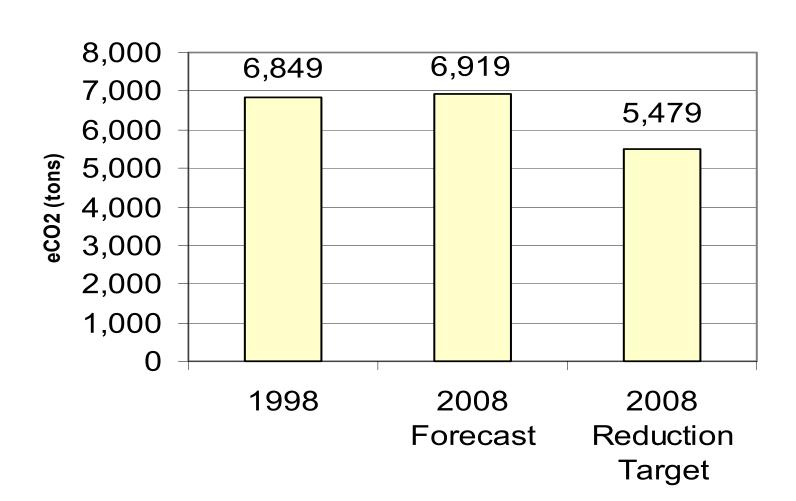
Cities for Climate Protection in Tompkins County

Milestone #2

Set a reduction target (August 2002)

"Tompkins County will, by 2008, reduce its emissions of greenhouse gases generated by county operations by 20 percent compared to the base year of 1998"

20% Reduction = 1,435 Tons eCO2



CLIMATE DOOTECTION



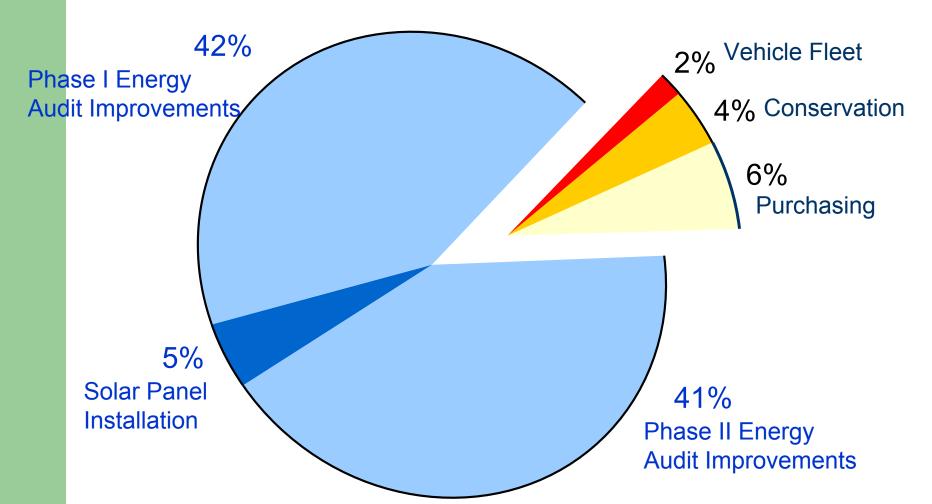
Cities for Climate Protection in Tompkins County

Milestone #3

The Local Action Plan to Reduce County Government GHG Emissions (June 2003)

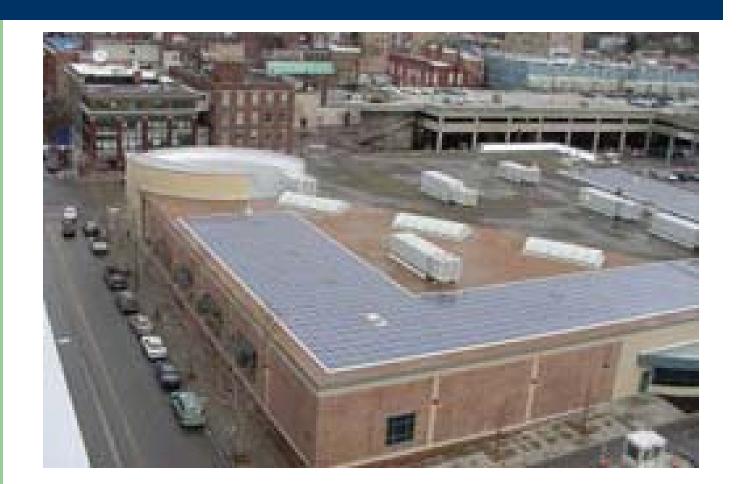
Local Action Plan Existing Measures (1998-2003)















Phase 1

- NYSERDA Flex Tech Program
- "low-cost" and "no-cost" measures
- \$94,000 estimated annual savings
- Energy reduction estimated at 10% (602 tons eCO2)







PHASE II

- Energy Performance Contract
- More in-depth energy assessment
 - HVAC, Motor, energy management system, water conservation, boiler replacements.
- •\$86,000 estimated annual savings

What can you do?

- Conservation energy
- Buy renewable electricity
- Curb you car
- Encourage local governments to
 - participate in Cities for Climate Protection
 - reduce their energy use.
 - purchase and produce green electricity
 - support low-income energy programs

Contacts

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